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**IN THE CLAIMS:**

**Please amend the claims of this application so as to read as follows:**

1-27. (Canceled, without prejudice)

28. (Currently Amended) A data storage medium for use with a display device,  
said data storage medium having recorded thereon a plurality of  
pre-specified data units that together define a single complete  
document ~~recorded thereon~~,

wherein

each pre-specified data unit includes (i) a series of  
display elements for display by the display device,  
and (ii) management elements associated with said  
display elements, said management elements  
including all information necessary for the display  
device to ~~select among the display elements for~~  
~~display, including a display of selected ones or~~  
~~contiguous groups of said display elements in a~~  
predetermined sequence of said display elements as  
a scroll display, and

wherein

said predetermined sequence of said display elements information for selecting among the display elements for scroll display defines includes an interval or a plurality of intervals that sequentially together form a scroll path, along which said scroll display is to be conducted, the each said interval intervals forming said scroll path being specified by a line segments respectively segment defined by coordinate values of a starting point and an end point in a coordinate system defined by said pre-specified unit corresponding according to coordinate values assigned to the display elements in said prespecified unit, such that the display elements forming the intervals defining said scroll path are respectively sequentially displayed from said starting point to said end point thereof as said scroll path is displayed by said display device.

29. Canceled, without prejudice.

30. Canceled, without prejudice.

31. (Currently Amended) A data storage medium as defined in claim 28, characterized in that ~~the information for selecting among the display elements or contiguous groups of display elements for scroll display includes information~~ said predetermined sequence of display elements also includes linking means for causing said display device to link an end point of linking a first scroll display path with a starting point of another scroll display path.
32. (Previously Presented) A data storage medium as defined in Claim 28, characterized in that said management elements include elements for controlling a scroll display speed.
33. (Previously Presented) A data storage medium as defined in claim 28, characterized in that the management elements include management elements associated with selected areas of said coordinate system defined by said pre-specified unit associated with said selected ones or said contiguous groupings of said display elements for scroll display.
34. (Previously Presented) A data storage medium as defined in claim 28, characterized in that the management elements include management elements specifying a scale of enlargement or reduction of said display elements or contiguous groupings of display elements located along a scroll path for scroll display.

35. (Previously Presented) A data storage medium according to Claim 28 wherein the management elements in each pre-specified data unit include display information and scroll display information, and wherein the scroll display information includes synchronous reproduction information for specifying non-motionless display elements to be reproduced in synchronism with a scroll display of other display elements.
36. (Currently Amended) A display device for displaying display elements stored on a data storage medium as defined in any one of claims 28, 29, 31, 32, 33, 34 or 35, comprising a display controller for performing a scroll display of said predetermined sequence of selected ones or contiguous groups of said display elements ~~based on said information for selecting among the display elements for scroll display.~~
37. (Currently Amended) A display device as defined in claim 36, further comprising a scroll indicating means for scroll display , and wherein said scroll display is conducted ~~based on said information included in said management elements for selecting among the selected ones or contiguous groups of said display elements for scroll display~~ only while a user instructs said display controller to perform scroll display in either forward or backward directions along a scroll path.

38. (Currently Amended) A data storage medium for use with a display device, said data storage medium having display data associated with a single complete document recorded thereon, said display data including a plurality of image data objects for display on a display screen of said display device and all management information associated with each of said image data objects required by said display device for the display, including the scroll display, thereof, comprising:

a computer readable medium on which said display data is recorded in the form of distinct files, each said distinct file containing a pre-selected portion of said display data including at least one of said plurality of image data objects along with all of the respective associated management information required by said display device for the display, including the scroll display, thereof, wherein said management information for the scroll display of said image data objects includes scroll path information defining a plurality of including and interval or intervals that together form a scroll path, each said intervals interval being specified by a line segments respectively segment defined by coordinate values of a starting point and an end point in a coordinate system defined by said distinct file according corresponding to coordinate values assigned to said image data objects of contiguous groups of image data objects in said distinct file,

such that the image data objects forming the intervals defining said scroll path are respectively sequentially displayed from said starting point to said end point thereof as said scroll path is displayed by said display device.

39. Canceled, without prejudice.

40. Canceled, without prejudice.

41. (Previously Presented) A data storage medium  
as defined in claim 38, characterized in that the management information associated with the image data objects contained in each one of said distinct files includes information for linking a scroll display of selected ones or contiguous groups of image data objects contained in that file with selected ones or contiguous groups of image data objects located on a scroll path contained in at least another one of said distinct files.

42. (Previously Presented) A data storage medium  
as defined in claim 38, characterized in that the management information associated with the image data objects or contiguous groups of image data objects in each said distinct file required for the scroll display of said image data objects or contiguous groups of said image data objects includes scroll display speed information.

43. (Previously Presented) A data storage medium as defined in claim 38, characterized in that the management information required by said display device for the scroll display of said image data objects or contiguous groups of said image data objects includes information specifying a scroll display area on a display screen of said display device within which said scroll display of said image data objects or said contiguous groups of said image data objects is to occur.
44. (Previously Presented) A data storage medium as defined in claim 38, characterized in that the management information required by said display device for the scroll display of said image data objects or said contiguous groups of said image data objects includes information specifying a scale of enlargement or reduction of a display area for scroll display on a display screen of said display device within which said scroll display is to occur.
45. (Previously Presented) A data storage medium as defined in claim 38, characterized in that said management information required for scroll display by said display device associated with said image data objects or contiguous groups of said image data objects includes synchronous reproduction information for specifying other image data objects to be displayed in synchronism with the scroll display of each said image data object or contiguous groups of image data objects.

46. (Currently Amended) A display device for displaying  
image data objects or contiguous groups of image data objects  
contained in at least one distinct file recorded on a data storage  
medium as defined any one of claims 38, 39, 41, 42, 43, 44 or 45,  
comprising a display controller performing scroll display of said  
image data objects or contiguous groups of said image data  
objects located on a scroll path based on management information  
associated with those image data objects or contiguous groups of  
said image data objects required by said display device for the  
scroll display thereof.
47. (Currently Amended) A display device as defined in claim 46, further  
comprising a scroll indicating means for monitoring the scroll  
display of said image data objects or contiguous groups of  
said image data objects on a display screen of said display  
device, wherein said scroll display is conducted based on  
the management information ~~required for display, including~~  
~~scroll display~~, only while a user instructs said display  
controller to perform said scroll display in either forward or  
backward directions along a selected scroll path.
48. (Cancelled, without prejudice)
49. (Cancelled, without prejudice)



50. (Currently Amended) A data storage medium

according to claim 28, wherein ~~said information necessary for said display device to select among said display elements for the display, including the scroll display, thereof specifies a scroll path for the display of said selected ones or contiguous groups of said display elements including vectors connecting~~ connect the intervals of said scroll path identified by starting and ending coordinate values of said selected ones or contiguous groups of said display elements in a coordinate system defined by said display elements according to coordinate values assigned to the display elements in each of said pre-specified units; and wherein said display device conducts a sequential display of said ~~selected ones or contiguous groups of said~~ predetermined sequence of display elements is conducted along each of the predetermined sequence of intervals in said scroll path as determined by said vectors.

51. (Cancelled, without prejudice)

52. (Cancelled, without prejudice)

53. (Currently Amended) A data storage medium

according to claim 38, wherein ~~the management information required by said display device for the display, including the scroll display, of said image data objects or contiguous groups of said image data objects specifies the scroll path of the display of the image data objects or the contiguous groups of image data objects including vectors connecting~~ connect the intervals of said scroll path identified by starting and ending coordinate values of said image data objects in a coordinate system defined in said image data objects according to coordinate values assigned to said image data objects in each of said distinct files, and wherein said display device conducts a sequential display of said image data objects or contiguous groups of image data objects ~~is conducted along each of the a predetermined sequence of said intervals in said scroll path as~~ determined by said vectors.

54. (Previously Presented) A data storage medium

as defined in claim 28, characterized in that the scroll display control information includes a scale of enlargement or reduction of a display area for scroll display on a screen of said display device.

55. (Currently Amended) A data storage medium

as defined in claim 38, characterized in that the management information required by said display device for ~~the display,~~ including the scroll display; of said image data objects or contiguous groups of image data objects includes a scale of enlargement or reduction of a display area for scroll display on a screen of said display device.